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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/087,464

DATE: 03/14/2002
 TIME: 12:12:40

Input Set : A:\s1237-7019SEQUEUS.txt
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3 <110> APPLICANT: Chishti, Athar
 4 Oh, Steven
 5 Liu, David
 6 Goel, Vikas
 7 Li, Xuerong
 9 <120> TITLE OF INVENTION: Band 3 Antigenic Peptides, Malaria Polypeptides and Uses
 Thereof
 11 <130> FILE REFERENCE: S1237/7019
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/087,464
 C--> 13 <141> CURRENT FILING DATE: 2002-03-01
 13 <150> PRIOR APPLICATION NUMBER: US 06/272,930
 14 <151> PRIOR FILING DATE: 2001-03-02
 16 <160> NUMBER OF SEQ ID NOS: 59
 18 <170> SOFTWARE: PatentIn version 3.0
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 21 <211> LENGTH: 20
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Homo sapiens
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 47 <211> LENGTH: 20
 48 <212> TYPE: PRT
 49 <213> ORGANISM: Homo sapiens
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 59 <210> SEQ ID NO: 4
 60 <211> LENGTH: 20
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62 <213> ORGANISM: Homo sapiens

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69 Pro Tyr Val Lys

70

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72 <210> SEQ ID NO: 5

73 <211> LENGTH: 3475

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82 cgtagacaac tggacactca ggaccacgcc atggaggagc tgcaggatga ttatgaagac      180
84 atgatggagg agaatctgga gcaggaggaa tatgaagacc cagacatccc cgagtcccag      240
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PATENT APPLICATION: US/10/087,464

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158 gcccagatcc aggaggtcaa agagcagcgg atcagtggac tcctggtcgc tgtgcttgtg 2460
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195 <210> SEQ ID NO: 6

196 <211> LENGTH: 911

197 <212> TYPE: PRT

198 <213> ORGANISM: Homo sapiens

200 <400> SEQUENCE: 6

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205 Glu Gln Glu Glu Tyr Glu Asp Pro Asp Ile Pro Glu Ser Gln Met Glu
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208 Glu Pro Ala Ala His Asp Thr Glu Ala Thr Ala Thr Asp Tyr His Thr
209 35 40 45
211 Thr Ser His Pro Gly Thr His Glu Val Tyr Val Glu Leu Gln Glu Leu
212 50 55 60
214 Val Met Asp Glu Lys Asn Gln Glu Leu Arg Trp Met Glu Ala Ala Arg
215 65 70 75 80
217 Trp Val Gln Leu Glu Glu Asn Leu Gly Glu Asn Gly Ala Trp Gly Arg
218 85 90 95
220 Pro His Leu Ser His Leu Thr Phe Trp Ser Leu Leu Glu Leu Arg Arg
221 100 105 110
223 Val Phe Thr Lys Gly Thr Val Leu Leu Asp Leu Gln Glu Thr Ser Leu
224 115 120 125
226 Ala Gly Val Ala Asn Gln Leu Leu Asp Arg Phe Ile Phe Glu Asp Gln
227 130 135 140
229 Ile Arg Pro Gln Asp Arg Glu Glu Leu Leu Arg Ala Leu Leu Leu Lys
230 145 150 155 160
232 His Ser His Ala Gly Glu Leu Glu Ala Leu Gly Gly Val Lys Pro Ala
233 165 170 175
235 Val Leu Thr Arg Ser Gly Asp Pro Ser Gln Pro Leu Leu Pro Gln His
236 180 185 190

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241 Glu Gly His Ser Pro Ser Gly Ile Leu Glu Lys Ile Pro Pro Asp Ser
242      210      215      220
244 Glu Ala Thr Leu Val Leu Val Gly Arg Ala Asp Phe Leu Glu Gln Pro
245 225      230      235      240
247 Val Leu Gly Phe Val Arg Leu Gln Glu Ala Ala Glu Leu Glu Ala Val
248      245      250      255
250 Glu Leu Pro Val Pro Ile Arg Phe Leu Phe Val Leu Leu Gly Pro Glu
251      260      265      270
253 Ala Pro His Ile Asp Tyr Thr Gln Leu Gly Arg Ala Ala Ala Thr Leu
254      275      280      285
256 Met Ser Glu Arg Val Phe Arg Ile Asp Ala Tyr Met Ala Gln Ser Arg
257      290      295      300
259 Gly Glu Leu Leu His Ser Leu Glu Gly Phe Leu Asp Cys Ser Leu Val
260 305      310      315      320
262 Leu Pro Pro Thr Asp Ala Pro Ser Glu Gln Ala Leu Leu Ser Leu Val
263      325      330      335
265 Pro Val Gln Arg Glu Leu Leu Arg Arg Arg Tyr Gln Ser Ser Pro Ala
266      340      345      350
268 Lys Pro Asp Ser Ser Phe Tyr Lys Gly Leu Asp Leu Asn Gly Gly Pro
269      355      360      365
271 Asp Asp Pro Leu Gln Gln Thr Gly Gln Leu Phe Gly Gly Leu Val Arg
272      370      375      380
274 Asp Ile Arg Arg Arg Tyr Pro Tyr Tyr Leu Ser Asp Ile Thr Asp Ala
275 385      390      395      400
277 Phe Ser Pro Gln Val Leu Ala Ala Val Ile Phe Ile Tyr Phe Ala Ala
278      405      410      415
280 Leu Ser Pro Ala Ile Thr Phe Gly Gly Leu Leu Gly Glu Lys Thr Arg
281      420      425      430
283 Asn Gln Met Gly Val Ser Glu Leu Leu Ile Ser Thr Ala Val Gln Gly
284      435      440      445
286 Ile Leu Phe Ala Leu Leu Gly Ala Gln Pro Leu Leu Val Val Gly Phe
287      450      455      460
289 Ser Gly Pro Leu Leu Val Phe Glu Glu Ala Phe Phe Ser Phe Cys Glu
290 465      470      475      480
292 Thr Asn Gly Leu Glu Tyr Ile Val Gly Arg Val Trp Ile Gly Phe Trp
293      485      490      495
295 Leu Ile Leu Leu Val Val Leu Val Val Ala Phe Glu Gly Ser Phe Leu
296      500      505      510
298 Val Arg Phe Ile Ser Arg Tyr Thr Gln Glu Ile Phe Ser Phe Leu Ile
299      515      520      525
301 Ser Leu Ile Phe Ile Tyr Glu Thr Phe Ser Lys Leu Ile Lys Ile Phe
302      530      535      540
304 Gln Asp His Pro Leu Gln Lys Thr Tyr Asn Tyr Asn Val Leu Met Val
305 545      550      555      560
307 Pro Lys Pro Gln Gly Pro Leu Pro Asn Thr Ala Leu Leu Ser Leu Val
308      565      570      575
310 Leu Met Ala Gly Thr Phe Phe Phe Ala Met Met Leu Arg Lys Phe Lys

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311          580          585          590
313 Asn Ser Ser Tyr Phe Pro Gly Lys Leu Arg Arg Val Ile Gly Asp Phe
314          595          600          605
316 Gly Val Pro Ile Ser Ile Leu Ile Met Val Leu Val Asp Phe Phe Ile
317          610          615          620
319 Gln Asp Thr Tyr Thr Gln Lys Leu Ser Val Pro Asp Gly Phe Lys Val
320 625          630          635          640
322 Ser Asn Ser Ser Ala Arg Gly Trp Val Ile His Pro Leu Gly Leu Arg
323          645          650          655
325 Ser Glu Phe Pro Ile Trp Met Met Phe Ala Ser Ala Leu Pro Ala Leu
326          660          665          670
328 Leu Val Phe Ile Leu Ile Phe Leu Glu Ser Gln Ile Thr Thr Leu Ile
329          675          680          685
331 Val Ser Lys Pro Glu Arg Lys Met Val Lys Gly Ser Gly Phe His Leu
332          690          695          700
334 Asp Leu Leu Leu Val Val Gly Met Gly Gly Val Ala Ala Leu Phe Gly
335 705          710          715          720
337 Met Pro Trp Leu Ser Ala Thr Thr Val Arg Ser Val Thr His Ala Asn
338          725          730          735
340 Ala Leu Thr Val Met Gly Lys Ala Ser Thr Pro Gly Ala Ala Ala Gln
341          740          745          750
343 Ile Gln Glu Val Lys Glu Gln Arg Ile Ser Gly Leu Leu Val Ala Val
344          755          760          765
346 Leu Val Gly Leu Ser Ile Leu Met Glu Pro Ile Leu Ser Arg Ile Pro
347          770          775          780
349 Leu Ala Val Leu Phe Gly Ile Phe Leu Tyr Met Gly Val Thr Ser Leu
350 785          790          795          800
352 Ser Gly Ile Gln Leu Phe Asp Arg Ile Leu Leu Leu Phe Lys Pro Pro
353          805          810          815
355 Lys Tyr His Pro Asp Val Pro Tyr Val Lys Arg Val Lys Thr Trp Arg
356          820          825          830
358 Met His Leu Phe Thr Gly Ile Gln Ile Ile Cys Leu Ala Val Leu Trp
359          835          840          845
361 Val Val Lys Ser Thr Pro Ala Ser Leu Ala Leu Pro Phe Val Leu Ile
362          850          855          860
364 Leu Thr Val Pro Leu Arg Arg Val Leu Leu Pro Leu Ile Phe Arg Asn
365 865          870          875          880
367 Val Glu Leu Gln Cys Leu Asp Ala Asp Asp Ala Lys Ala Thr Phe Asp
368          885          890          895
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371          900          905          910
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376 <213> ORGANISM: Homo sapiens
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383 gagctgcagg atgattatga agacatgatg gaggagaatc tggagcagga ggaatatgaa      180

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/087,464

DATE: 03/14/2002

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date